1600

RAW SEQUENCE LISTING   DATE: 10/31/2003
PATENT APPLICATION: **US/09/489,760C**   TIME: 14:53:27

Input Set : **A:\SEQLIST.CRF.txt**
Output Set: **N:\CRF4\10312003\I489760C.raw**

```
 3 <110> APPLICANT: Goulmy, Elsa A.J.M
 4         Hunt, Donald F
 5         Engelhard, Victor H
 7 <120> TITLE OF INVENTION: The HA-1 Antigen
 9 <130> FILE REFERENCE: 2183-4285US
11 <140> CURRENT APPLICATION NUMBER: 09/489,760C
12 <141> CURRENT FILING DATE: 2000-01-21
14 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00424
15 <151> PRIOR FILING DATE: 1998-07-23
17 <160> NUMBER OF SEQ ID NOS: 17
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 9
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: obtained from histocompatibility antigen
29 <220> FEATURE:
30 <221> NAME/KEY: MISC_FEATURE
31 <222> LOCATION: (3)..(3)
32 <223> OTHER INFORMATION: Xaa is HISTIDINE OR ARGININE RESIDUE
34 <400> SEQUENCE: 1
```

W--> **35 Val Leu Xaa Asp Asp Leu Leu Glu Ala**

```
36 1                 5
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 9
41 <212> TYPE: PRT
42 <213> ORGANISM: Artificial sequence
44 <220> FEATURE:
45 <223> OTHER INFORMATION: obtained from histocompatibility antigen
47 <400> SEQUENCE: 2
48 Val Leu His Asp Asp Leu Leu Glu Ala
49 1                 5
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 9
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: obtained from histocompatibility antigen
60 <220> FEATURE:
61 <221> NAME/KEY: MISC_FEATURE
62 <222> LOCATION: (2)..(2)
63 <223> OTHER INFORMATION: Xaa is ISOLEUCINE OR LEUCINE
```

```
RAW SEQUENCE LISTING                    DATE: 10/31/2003
PATENT APPLICATION:  US/09/489,760C     TIME: 14:53:27

Input Set : A:\SEQLIST.CRF.txt
Output Set: N:\CRF4\10312003\I489760C.raw
```

```
       65 <400> SEQUENCE: 3
W-->   66 Tyr Xaa Thr Asp Arg Val Met Thr Val
       67 1                 5
       70 <210> SEQ ID NO: 4
       71 <211> LENGTH: 9
       72 <212> TYPE: PRT
       73 <213> ORGANISM: Artificial sequence
       75 <220> FEATURE:
       76 <223> OTHER INFORMATION: obtained from histocompatibility antigen
       78 <220> FEATURE:
       79 <221> NAME/KEY: MISC_FEATURE
       80 <222> LOCATION: (2)..(7)
       81 <223> OTHER INFORMATION: Xaa is LEUCINE OR ISOLEUCINE
       83 <400> SEQUENCE: 4
W-->   84 Val Xaa His Asp Asp Xaa Xaa Glu Ala
       85 1                 5
       88 <210> SEQ ID NO: 5
       89 <211> LENGTH: 9
       90 <212> TYPE: PRT
       91 <213> ORGANISM: Artificial sequence
       93 <220> FEATURE:
       94 <223> OTHER INFORMATION: obtained from KIAA0223 partial complementary DNA
       96 <400> SEQUENCE: 5
       97 Val Leu Arg Asp Asp Leu Leu Glu Ala
       98 1                 5
      101 <210> SEQ ID NO: 6
      102 <211> LENGTH: 25
      103 <212> TYPE: DNA
      104 <213> ORGANISM: Artificial sequence
      106 <220> FEATURE:
      107 <223> OTHER INFORMATION: synthesized sequence, Reverse primer
      109 <400> SEQUENCE: 6
      110 gctcctgcat gacgctctgt ctgca                              25
      113 <210> SEQ ID NO: 7
      114 <211> LENGTH: 24
      115 <212> TYPE: DNA
      116 <213> ORGANISM: Artificial sequence
      118 <220> FEATURE:
      119 <223> OTHER INFORMATION: synthesized sequence, Forward primer
      121 <400> SEQUENCE: 7
      122 gacgtcgtcg aggacatctc ccat                               24
      125 <210> SEQ ID NO: 8
      126 <211> LENGTH: 25
      127 <212> TYPE: DNA
      128 <213> ORGANISM: Artificial sequence
      130 <220> FEATURE:
      131 <223> OTHER INFORMATION: synthesized sequence, Reverse Primer
      133 <400> SEQUENCE: 8
      134 gaaggccaca gcaatcgtct ccagg                              25
```

RAW SEQUENCE LISTING   DATE: 10/31/2003
PATENT APPLICATION: **US/09/489,760C**   TIME: 14:53:27

Input Set : **A:\SEQLIST.CRF.txt**
Output Set: **N:\CRF4\10312003\I489760C.raw**

```
137 <210> SEQ ID NO: 9
138 <211> LENGTH: 30
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: synthesized sequence, HA-1" allele primer H1
145 <400> SEQUENCE: 9
146 ccttgagaaa cttaaggagt gtgtgctgca                      30
149 <210> SEQ ID NO: 10
150 <211> LENGTH: 30
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: synthesized sequence, HA-1r allele primer R1
157 <400> SEQUENCE: 10
158 ccttgagaaa cttaaggagt gtgtgttgcg                      30
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 33
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: synthesized sequence, Forward KIAA00223 based PCR primer
169 <400> SEQUENCE: 11
170 ccggcatgga cgtcgtcgag gacatctccc atc                  33
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 30
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: synthesized sequence, Reverse KIAA00223 based PCR primer
181 <400> SEQUENCE: 12
182 ctacttcagg ccacagcaat cgtctccagg                      30
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 38
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: obtained from HA-1-/- phenotype
193 <400> SEQUENCE: 13
194 gagtgtgtgt tgcgtgacga cctccttgag gcccgccg             38
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 13
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: obtained from HA-1-/- phenotype
205 <400> SEQUENCE: 14
206 Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg
207 1               5                   10
```

```
210 <210> SEQ ID NO: 15
211 <211> LENGTH: 38
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: obtained from HA-1+/+ phenotype
218 <400> SEQUENCE: 15
219 gagtgtgtgc tgcatgacga cctccttgag gcccgccg                     38
222 <210> SEQ ID NO: 16
223 <211> LENGTH: 13
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: obtained from HA-1+/+ phenotype
230 <400> SEQUENCE: 16
231 Glu Cys Val Leu His Asp Asp Leu Leu Glu Ala Arg Arg
232 1               5                   10
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 10
237 <212> TYPE: PRT
238 <213> ORGANISM: Unknown
240 <220> FEATURE:
241 <223> OTHER INFORMATION: fluorescent peptide that can bind recombinant HLA-A2.1 and
b2microglobulin
243 <400> SEQUENCE: 17
244 Phe Leu Pro Ser Asp Cys Phe Pro Ser Val
245 1               5                   10
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/31/2003
PATENT APPLICATION: **US/09/489,760C**   TIME: 14:53:28

Input Set : **A:\SEQLIST.CRF.txt**
Output Set: **N:\CRF4\10312003\I489760C.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3
Seq#:3; Xaa Pos. 2
Seq#:4; Xaa Pos. 2,6,7

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:17; Line(s) 241

VERIFICATION SUMMARY　　　　　　　　　DATE: 10/31/2003
PATENT APPLICATION: **US/09/489,760C**　　　TIME: 14:53:28

Input Set : **A:\SEQLIST.CRF.txt**
Output Set: **N:\CRF4\10312003\I489760C.raw**

L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0